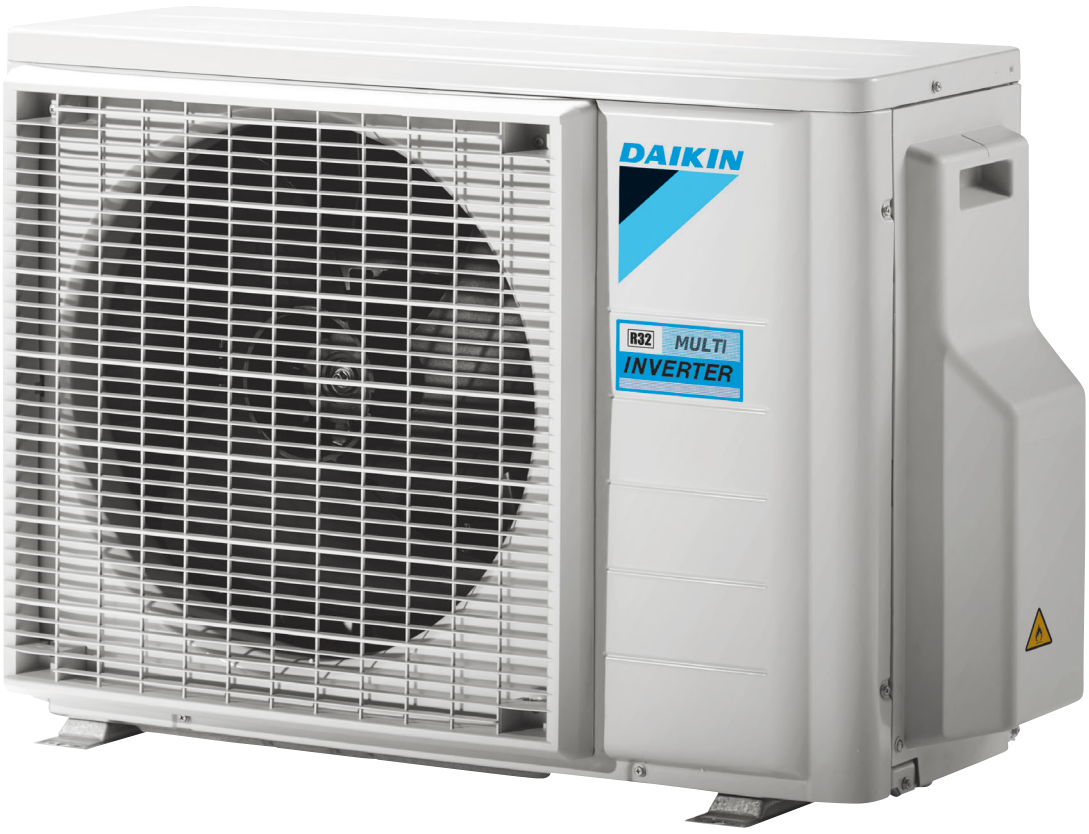
Multi model application Technical data book

2MXM-N



2MXM40N2V1B
2MXM50N2V1B
2MXM68N2V1B

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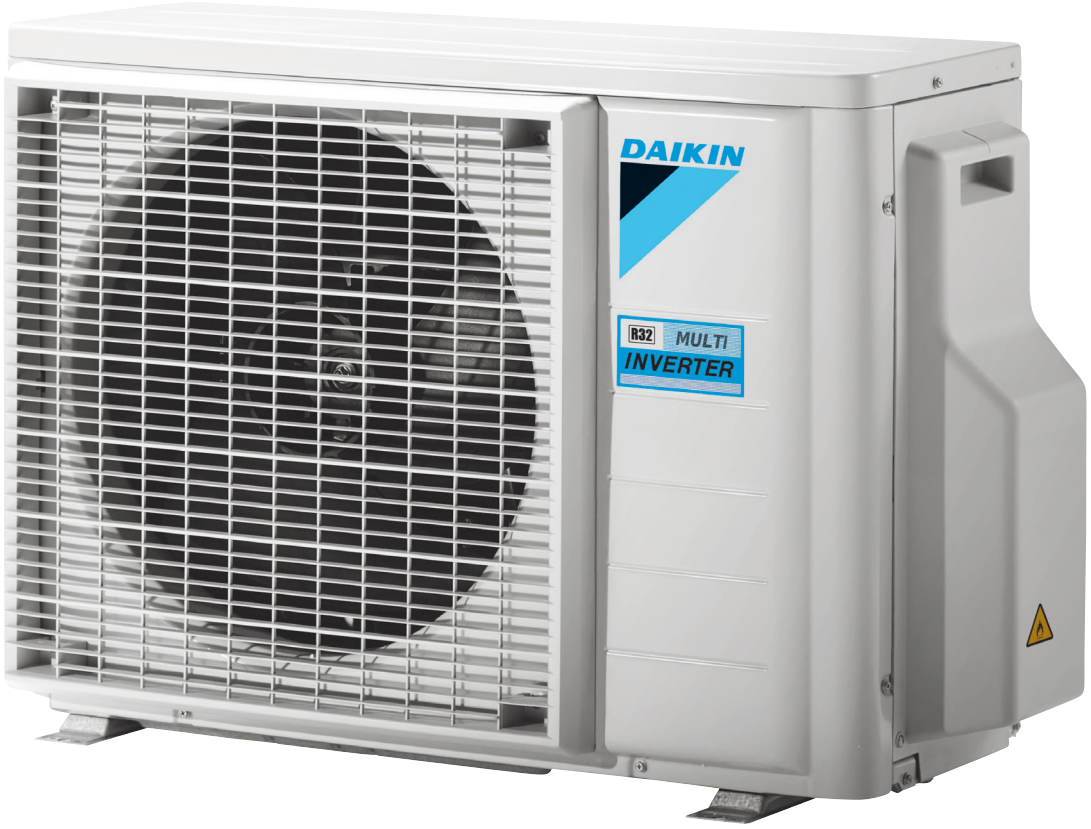
Table of contents

2MXM-N

1 Features

1 - 1 2MXM-N

› Seasonal efficiency values up to A+++ in cooling and A++ in heating thanks to its up-to-date technology and built-in intelligence
› Up to 2 indoor units can be connected to 1 multi outdoor unit; all indoor units are individually controllable and do not need to be installed in the same room or at the same time. They operate simultaneously within the same heating or cooling mode.
› Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
› Different types of indoor units can be connected: e.g. wall mounted, ceiling mounted cassette corner, concealed ceiling unit
› Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency



INVERTER
Inverter

2 Specifications

1 - 1 2MXM-N

Technical specifications					2MXM40N	2MXM50N	2MXM68N
Casing	Colour				Ivory white		
Dimensions	Unit	Height		mm	550		734
		Width		mm	765		958
		Depth		mm	285		340
	Packed unit	Height		mm	614		820
		Width		mm	900		1,050
		Depth		mm	357		480
Weight	Unit			kg	36	41	60.0
	Packed unit			kg	38	43	65.0
Compressor	Power input	Cooling	Nom.	W	970	1,246	-
		Heating	Nom.	W	981	1,372	-
Heat exchanger	Length			mm	805	810	920
	Rows	Quantity			2		
	Fin pitch			mm	1.50		1.40
	Stages	Quantity			24		32
	Passes	Quantity			3.2		6.4
	Tube type				7.0 Hi-XD	8.1 Hi-XA	Hi-XA
	Tube diameter			mm	7.0	8.1	8
	Fin	Type			WF fin		WHS8 FIN-HYDROPHILIC
		Treatment			Anti-corrosion treatment		
Fan	Type				Propeller fan		Propeller
	Discharge direction				Horizontal		-
	Quantity				1		-
	Air flow rate	Cooling	High	m^3/min	36	37	46.5
				cfm	1,271	1,306	1,642
			Nom.	m^3/min	-		42.5
				cfm	-		1,501
			Medium	m^3/min	33	34	-
				cfm	1,165	1,200	-
			Silent operation	m^3/min	20		24.1
				cfm	706		851
		Heating	High	m^3/min	32	34	43.8
				cfm	1,130	1,200	1,547
			Nom.	m^3/min	-		43.8
				cfm	-		1,547
			Medium	m^3/min	32	34	-
Fan	Air flow rate	Heating	Medium	cfm	1,130	1,200	-
			Silent operation	m^3/min	18	22	24.1
				cfm	636	777	851
Fan motor	Quantity				1		
	Model				LFD-280-23-8F		D55F-31
	Output			W	50		55
	Speed	Cooling	High	rpm	900	950	760
			Medium	rpm	840	890	700
			Super low	rpm	500		420
		Heating	High	rpm	820	890	720
			Super low	rpm	320	500	420
			Medium	rpm	-		720
Compressor	Quantity				1		
	Model				1YC25GXD#C	2YC40JXD#C	2YC71DXD#C
	Oil Amount			cm^3	375	650	900
	Type				Hermetically sealed swing compressor		
	Output			W	800	1,300	2,400
	Oil Type				FW68DA		
Operation range	Cooling	Ambient	Min.	°CDB	-		-10
			Max.	°CDB	-		46
	Heating	Ambient	Min.	°CDB	-		-15
			Max.	°CDB	-		24
Sound power level	Cooling			dBA	60		61.0
	Heating			dBA	62		61.0
Sound pressure level	Cooling	High		dBA	46	48	-
		Nom.		dBA	-		48.0
	Heating	High		dBA	48	50	-
		Nom.		dBA	-		48.0
Refrigerant	Type				R-32		
	Charge			kg	0.88	1.15	2.00
	Charge			TCO2Eq	0.60	0.78	1.35
	Control				Expansion valve		-
	GWP				675		675.0

2 Specifications

1 - 1 2MXM-N

Technical specifications					2MXM40N	2MXM50N	2MXM68N
Piping connections	Liquid	Quantity			2		
		Type			Flare connection		-
		OD		mm	6.4		6.35
	Gas	Quantity			2	1	
Piping connections	Gas	Type			Flare connection		-
		OD		mm	9.5		9.50
	Drain	Quantity			1		
		Type			Drain Joint		-
		OD		mm	16 (inner diameter of connecting hose)		16
	Gas 2	Quantity			-	1	
		Type			-	Flare connection	-
		OD		mm	-	12.70	
	Piping length	OU - IU	Min.	m	-		3 (1)
			Max.	m	20 (1)		25 (1)
		System	Chargeless	m	-		30
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 20m)		0.02 (for piping length exceeding 30m)
	Level difference	IU - OU	Max.	m	15.0		
		IU - IU		m	7.5		
	Heat insulation				Both liquid and gas pipes		-
	Total piping length	System	Actual	m	30.0		50
Capacity control	Method				Variable (inverter)		

Standard accessories: Installation manual; Quantity: 1;

Standard accessories: Screw bag; Quantity: 1;

Standard accessories: Drain plug; Quantity: 1;

Standard accessories: Reducer assembly; Quantity: 1;

Standard accessories: Drain cap (1); Quantity: 6;

Standard accessories: Drain cap (2); Quantity: 3;

Electrical specifications				2MXM40N	2MXM50N	2MXM68N
Power supply	Phase			1~		
	Frequency		Hz	50		
	Voltage		V	220-230-240		220-240
Wiring connections	For power supply	Quantity		3		
		Remark		Earth wire included		
	For connection with indoor	Quantity		4		
		Remark		Earth wire included		

(1)For one room |
See separate drawing for operation range |
See separate drawing for electrical data |
Contains fluorinated greenhouse gases

3 Electrical data

3 - 1 Electrical Data

2MXM40-50N

Outdoor unit	Power supply			·RA· indoor units (·10·% safety factor) See note ·5·.		Other indoor units (·10·% safety factor)		COMP		OFM	
Model name	Hz	Voltage	Voltage range	MCA	MFA	MCA	MFA	RHz	RLA	kW	FLA
2MXM40M3V1B	50	220	Maximum ·50·Hz ·264·V	9,80	16	9,80	16	-	5,1	0,040	0,17
2MXM40M4V1B	50	230							5,3		
2MXM40N2V1B	50	240	Minimum ·50·Hz ·198·V						5,6		
2MXM50M2V1B9	50	220	Maximum ·50·Hz ·264·V	12,94	16	13,27	16	-	5,9	0,042	0,18
2MXM50M3V1B9	50	230							6,2		
2MXM50N2V1B	50	240	Minimum ·50·Hz ·198·V						6,5		
2AMXM40M3V1B	50	220	Maximum ·50·Hz ·264·V	9,80	16	9,80	16	-	5,1	0,040	0,17
2AMXM40M4V1B	50	230							5,3		
	50	240	Minimum ·50·Hz ·198·V						5,6		
2AMXM50M3V1B	50	220	Maximum ·50·Hz ·264·V	12,94	16	13,27	16	-	5,9	0,042	0,18
2AMXM50M4V1B	50	230							6,2		
	50	240	Minimum ·50·Hz ·198·V						6,5		
2AMXF40A2V1B	50	220	Maximum ·50·Hz ·264·V	9,80	16	9,80	16	-	5,1	0,040	0,17
	50	230							5,3		
	50	240	Minimum ·50·Hz ·198·V						5,6		
2AMXF50A2V1B	50	220	Maximum ·50·Hz ·264·V	12,83	16	12,83	16	-	5,9	0,042	0,18
	50	230							6,2		
	50	240	Minimum ·50·Hz ·198·V						6,5		
2MXF40A2V1B	50	220	Maximum ·50·Hz ·264·V	9,80	16	9,80	16	-	5,1	0,040	0,17
	50	230							5,3		
	50	240	Minimum ·50·Hz ·198·V						5,6		
2MXF50A2V1B	50	220	Maximum ·50·Hz ·264·V	12,83	16	12,83	16	-	5,9	0,042	0,18
	50	230							6,2		
	50	240	Minimum ·50·Hz ·198·V						6,5		

Notes

1) The ·RLA· is based on the following conditions.
   Outdoor temperature ·35·°C DB
   Indoor temperature ·27·°C DB / ·19·°C WB
2) Select the wire size according to the MCA.
3) The maximum allowable voltage that is unbalanced between phases is ·2·%.
4) Use a circuit breaker instead of a fuse.
5) Only for wall-mounted ·FVXM· units

Symbols

MCA:	Minimum Circuit Ampere [A]
MFA:	Maximum Fuse Ampere [A]
RLA:	Rated load amps [A]
OFM:	Outdoor fan motor
RHz:	Rated operating frequency [Hz]
FLA:	Full Load Ampere [A]
kW:	Fan motor rated output [kW]

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3 Electrical data

3 - 1 Electrical Data

2MXM68N

Outdoor unit	Power supply			·RA· indoor units (·10·% safety factor) See note ·5·.		Other indoor units (·10·% safety factor)		COMP		OFM	
Model name	Hz	Voltage	Voltage range	MCA	MFA	MCA	MFA	RHz	RLA	kW	FLA
2MXM68N2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	16,94	20	19,80	20	-	7,8	0,056	0,37
	50	230							7,5		
	50	240							8,7		
3MXM40N2V1B9	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,31	16	15,97	16	-	2,9	0,056	0,37
	50	230							3,0		
	50	240							3,1		
3MXM52N2V1B9	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,59	20	16,27	20	-	4,5	0,056	0,37
	50	230							4,7		
	50	240							4,9		
3MXM68N2V1B9	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	17,19	20	19,81	20	-	8,0	0,056	0,37
	50	230							8,4		
	50	240							8,7		
4MXM68N2V1B9	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	17,36	20	19,81	20	-	7,0	0,056	0,37
	50	230							7,3		
	50	240							7,6		
4MXM80N2V1B9	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	17,04	25	20,36	25	-	8,5	0,075	0,50
	50	230							8,9		
	50	240							9,3		
5MXM90N2V1B9	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	21,70	32	25,88	32	-	9,2	0,075	0,50
	50	230							9,6		
	50	240							10,0		
3AMXM52N2V1B9	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	18,19	20	16,27	20	-	4,5	0,056	0,37
	50	230							4,7		
	50	240							4,9		
3MXF52A2V1B9	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,59	20	16,27	20	-	4,5	0,056	0,37
	50	230							4,7		
	50	240							4,9		
3AMXF52A2V1B9	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,59	20	16,27	20	-	4,5	0,056	0,37
	50	230							4,7		
	50	240							4,9		
3MXF68A2V1B9	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	17,19	20	19,81	20	-	8,0	0,056	0,37
	50	230							8,4		
	50	240							8,7		
3MXM40N2V1B8	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,31	16	15,97	16	-	2,9	0,056	0,37
	50	230							3,0		
	50	240							3,1		
3MXM52N2V1B8	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,59	20	16,27	20	-	4,5	0,056	0,37
	50	230							4,7		
	50	240							4,9		

Notes

1) The ·RLA· is based on the following conditions.
   Outdoor temperature ·35·°C DB
   Indoor temperature ·27·°C DB / ·19·°C WB
2) Select the wire size according to the MCA.
3) The maximum allowable voltage that is unbalanced between phases is ·2·%.
4) Use a circuit breaker instead of a fuse.
5) Only for wall-mounted ·FVXM· units

Symbols

MCA: Minimum Circuit Ampere [A]
MFA: Maximum Fuse Ampere [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
MSC: Maximum starting current
FLA: Full Load Ampere [A]
kW: Fan motor rated output [kW]

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4 Combination table

4 - 1 Combination Table

2MXM40N

Cooling ·(50Hz 230V)·

Outdoor unit	Indoor unit	Cooling capacity [kW]		Total capacity [kW]			Power input [kW]			Total current [A]			Power factor [%]
		Room A	Room B	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	
2MXM40M2V1B 2MXM40M3V1B 2MXM40M4V1B 2MXM40N2V1B	1,5	1,50	---	1,30	1,50	2,00	0,33	0,31	0,40	1,78	1,70	2,17	79
	2,0	2,00	---	1,30	2,00	2,40	0,33	0,44	0,57	1,78	2,38	3,09	79
	2,5	2,50	---	1,30	2,50	3,00	0,33	0,61	0,80	1,78	3,33	4,40	79
	3,5	3,50	---	1,30	3,50	4,00	0,33	1,04	1,35	1,78	5,71	7,38	79
	1.5+1.5	1,50	1,50	1,50	3,00	3,60	0,31	0,60	0,73	1,67	3,33	4,00	79
	1.5+2.0	1,50	2,00	1,50	3,50	4,00	0,31	0,79	0,91	1,67	4,35	4,98	79
	1.5+2.5	1,50	2,50	1,50	4,00	4,20	0,31	0,98	1,03	1,67	5,37	5,64	79
	1.5+3.5	1,20	2,80	1,50	4,00	4,40	0,31	0,96	1,06	1,67	5,30	5,83	79
	2.0+2.0	2,00	2,00	1,50	4,00	4,20	0,31	0,97	1,02	1,67	5,34	5,61	79
	2.0+2.5	1,78	2,22	1,50	4,00	4,30	0,31	0,96	1,04	1,67	5,30	5,70	79
	2.0+3.5	1,45	2,55	1,50	4,00	4,50	0,31	0,95	1,08	1,67	5,25	5,91	79
	2.5+2.5	2,00	2,00	1,50	4,00	4,40	0,31	0,96	1,06	1,67	5,27	5,80	79
	2.5+3.5	1,67	2,33	1,50	4,00	4,60	0,31	0,94	1,09	1,67	5,20	5,98	79

Heating ·(50Hz 230V)·

Outdoor unit	Indoor unit	Heating capacity [kW]		Total capacity [kW]			Power input [kW]			Total current [A]			Power factor [%]
		Room A	Room B	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	
2MXM40M2V1B 2MXM40M3V1B 2MXM40M4V1B 2MXM40N2V1B	1,5	2,00	---	1,00	2,00	3,30	0,26	0,68	1,04	1,43	3,66	5,69	79
	2,0	3,00	---	1,00	3,00	3,70	0,26	0,83	1,24	1,43	4,52	6,78	79
	2,5	3,40	---	1,00	3,40	4,10	0,26	1,02	1,48	1,43	5,59	8,09	79
	3,5	3,80	---	1,00	3,80	4,40	0,26	1,28	1,71	1,43	7,02	9,40	79
	1.5+1.5	1,75	1,75	1,20	3,50	4,30	0,24	0,80	0,99	1,31	4,43	5,45	79
	1.5+2.0	1,63	2,17	1,20	3,80	4,50	0,24	0,88	1,04	1,31	4,85	5,75	79
	1.5+2.5	1,58	2,63	1,20	4,20	4,60	0,24	1,00	1,10	1,31	5,53	6,06	79
	1.5+3.5	1,26	2,94	1,20	4,20	4,70	0,24	0,96	1,12	1,31	5,29	5,92	79
	2.0+2.0	2,10	2,10	1,30	4,20	4,60	0,24	0,98	1,08	1,31	5,41	5,93	79
	2.0+2.5	1,87	2,33	1,30	4,20	4,70	0,24	0,97	1,09	1,31	5,36	6,00	79
	2.0+3.5	1,53	2,67	1,30	4,20	4,80	0,24	0,95	1,09	1,31	5,25	6,00	79
	2.5+2.5	2,10	2,10	1,30	4,20	4,70	0,24	0,96	1,08	1,31	5,29	5,92	79
	2.5+3.5	1,75	2,45	1,30	4,20	4,80	0,24	0,94	1,08	1,31	5,19	5,94	79

Notes

1. The total capacity of each connected indoor unit is up to ·6.0·kW.
2. The values above are for connecting with the following indoor unit types:
   ·1.5, 2.0, 2.5, 3.5· kW class
   Wall-mounted ·CTXM-M,FTXM-M· series
3. These indoor units can only be used in a multi-unit setup.
4. Heating capacity conditions
   Indoor temperature ·20·°C DB
   Outdoor temperature ·7·°C DB / ·6·°C WB
5. Cooling capacity conditions
   Indoor temperature ·27·°C DB / ·19·°C WB
   Outdoor temperature ·35·°C DB

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4 Combination table

4 - 1 Combination Table

2MXM50N

Outdoor unit	Indoor unit	Cooling capacity [kW]		Total capacity [kW]			Power input [kW]			Total current [A]			Power factor [%]
		Room A	Room B	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	
2MXM50M2V1B 2MXM50M2V1B9 2MXM50M3V1B9 2MXM50N2V1B	1,5	1,50	---	1,40	1,50	2,20	0,31	0,32	0,52	1,53	1,55	2,53	89
	2,0	2,00	---	1,40	2,00	2,60	0,31	0,47	0,69	1,53	2,25	3,37	89
	2,5	2,50	---	1,40	2,50	3,10	0,31	0,67	0,92	1,53	3,27	4,50	89
	3,5	3,50	---	1,40	3,50	4,00	0,31	1,09	1,42	1,53	5,32	6,95	89
	4,2	4,20	---	1,40	4,20	4,70	0,31	1,59	1,75	1,53	7,73	8,57	89
	5,0	5,00	---	1,60	5,00	5,30	0,33	1,30	1,44	1,64	6,33	7,01	89
	1.5+1.5	1,50	1,50	1,60	3,00	3,20	0,33	0,62	0,66	1,64	3,03	3,24	89
	1.5+2.0	1,50	2,00	1,60	3,50	3,70	0,33	0,76	0,80	1,64	3,71	3,93	89
	1.5+2.5	1,50	2,50	1,60	4,00	4,20	0,33	0,94	0,99	1,64	4,60	4,83	89
	1.5+3.5	1,50	3,50	1,60	5,00	5,00	0,33	1,25	1,25	1,64	6,10	6,10	89
	1.5+4.2	1,32	3,68	1,60	5,00	5,40	0,33	1,23	1,54	1,64	6,04	6,53	89
	1.5+5.0	1,15	3,85	1,80	5,00	5,50	0,33	1,23	1,68	1,64	5,99	6,59	89
	2.0+2.0	2,00	2,00	1,80	4,00	5,00	0,33	0,94	1,28	1,64	4,60	5,75	89
	2.0+2.5	2,00	2,50	1,80	4,50	5,10	0,33	1,07	1,31	1,64	5,23	5,93	89
	2.0+3.5	1,82	3,18	1,80	5,00	5,40	0,33	1,24	1,49	1,64	6,05	6,54	89
	2.0+4.2	1,61	3,39	1,80	5,00	5,50	0,33	1,23	1,51	1,64	6,01	6,62	89
	2.0+5.0	1,43	3,57	1,80	5,00	5,50	0,33	1,22	1,44	1,64	5,95	6,55	89
	2.5+2.5	2,50	2,50	1,80	5,00	5,30	0,33	1,25	1,42	1,64	6,10	6,47	89
	2.5+3.5	2,08	2,92	1,80	5,00	5,40	0,33	1,23	1,43	1,64	6,02	6,51	89
	2.5+4.2	1,87	3,13	1,80	5,00	5,50	0,33	1,22	1,45	1,64	5,98	6,58	89
	2.5+5.0	1,67	3,33	1,80	5,00	5,50	0,33	1,21	1,38	1,64	5,92	6,52	89
	3.5+3.5	2,50	2,50	1,80	5,00	5,40	0,33	1,22	1,42	1,64	5,95	6,43	89
	3.5+4.2	2,27	2,73	1,80	5,00	5,50	0,33	1,21	1,40	1,64	5,90	6,49	89
	3.5+5.0	2,06	2,94	1,80	5,00	5,50	0,33	1,20	1,34	1,64	5,85	6,44	89
	4.2+4.2	2,50	2,50	1,80	5,00	5,50	0,33	1,20	1,38	1,64	5,88	6,47	89

Outdoor unit	Indoor unit	Heating capacity [kW]		Total capacity [kW]			Power input [kW]			Total current [A]			Power factor [%]
		Room A	Room B	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	
2MXM50M2V1B 2MXM50M2V1B9 2MXM50M3V1B9 2MXM50N2V1B	1,5	2,00	---	1,10	2,00	3,30	0,29	0,68	0,95	1,44	3,31	4,66	89
	2,0	3,00	---	1,10	3,00	3,70	0,27	0,82	1,13	1,33	3,99	5,52	89
	2,5	3,40	---	1,10	3,40	4,10	0,25	0,99	1,34	1,23	4,81	6,54	89
	3,5	4,00	---	1,10	4,00	4,60	0,25	1,24	1,53	1,23	6,03	7,46	89
	4,2	4,60	---	1,10	4,60	5,00	0,23	1,49	1,81	1,12	7,27	8,85	89
	5,0	5,50	---	1,20	5,50	5,60	0,23	1,35	1,51	1,12	6,56	9,01	89
	1.5+1.5	2,00	2,00	1,20	4,00	4,54	0,23	0,87	0,99	1,12	4,27	4,85	89
	1.5+2.0	1,89	2,51	1,20	4,40	4,89	0,23	1,02	1,13	1,12	4,97	5,53	89
	1.5+2.5	1,80	3,00	1,20	4,80	5,19	0,23	1,18	1,27	1,12	5,75	6,22	89
	1.5+3.5	1,56	3,64	1,20	5,20	5,70	0,25	1,28	1,40	1,23	6,25	6,86	89
	1.5+4.2	1,47	4,13	1,20	5,60	5,96	0,25	1,37	1,46	1,23	6,71	7,15	89
	1.5+5.0	1,29	4,31	1,20	5,60	6,16	0,25	1,37	1,50	1,23	6,68	7,35	89
	2.0+2.0	2,60	2,60	1,20	5,20	5,70	0,23	1,27	1,40	1,12	6,22	6,82	89
	2.0+2.5	2,49	3,11	1,20	5,60	5,80	0,23	1,37	1,42	1,12	6,68	6,92	89
	2.0+3.5	2,04	3,56	1,20	5,60	5,90	0,25	1,36	1,43	1,23	6,65	7,01	89
	2.0+4.2	1,81	3,79	1,20	5,60	6,00	0,25	1,36	1,46	1,23	6,63	7,11	89
	2.0+5.0	1,60	4,00	1,20	5,60	6,20	0,25	1,35	1,50	1,23	6,60	7,31	89
	2.5+2.5	2,80	2,80	1,20	5,60	5,80	0,23	1,37	1,42	1,12	6,71	6,95	89
	2.5+3.5	2,33	3,27	1,20	5,60	6,00	0,25	1,38	1,48	1,23	6,76	7,25	89
	2.5+4.2	2,09	3,51	1,20	5,60	6,10	0,25	1,39	1,51	1,23	6,79	7,40	89
	2.5+5.0	1,87	3,73	1,30	5,60	6,30	0,25	1,41	1,58	1,23	6,88	7,74	89
	3.5+3.5	2,80	2,80	1,30	5,60	6,10	0,25	1,40	1,52	1,23	6,83	7,44	89
	3.5+4.2	2,55	3,05	1,30	5,60	6,20	0,25	1,40	1,55	1,23	6,84	7,58	89
	3.5+5.0	2,31	3,29	1,30	5,60	6,40	0,25	1,42	1,63	1,23	6,95	7,95	89
	4.2+4.2	2,80	2,80	1,30	5,60	6,30	0,25	1,41	1,58	1,23	6,88	7,74	89

Notes

1. The total capacity of each connected indoor unit is up to ·8.5·kW.
2. The values above are for connecting with the following indoor unit types:
   ·1.5, 2.0, 3.5, 4.2, 5.0· kW class
   Wall-mounted ·CTXM-M,FTXM-M· series
3. These indoor units can only be used in a multi-unit setup.
4. Heating capacity conditions
   Indoor temperature ·20·°C DB
   Outdoor temperature ·7·°C DB / ·6·°C WB
5. Cooling capacity conditions
   Indoor temperature ·27·°C DB / ·19·°C WB
   Outdoor temperature ·35·°C DB

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4 Combination table

4 - 1 Combination Table

2MXM68N

Cooling ·(50Hz 230V)·

Outdoor unit	Indoor unit	Cooling capacity [kW]		Total capacity [kW]			Power input [kW]			Total current [A]			Power factor [%]
		Room ·A·	Room ·B·	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	
2MXM68N2V1B	1,5	1,60	---	1,52	1,60	2,49	0,40	0,42	0,59	1,82	1,98	2,71	95
	2,0	2,00	---	1,66	2,00	2,68	0,42	0,43	0,60	1,91	2,08	2,75	95
	2,5	2,50	---	1,74	2,50	3,44	0,44	0,55	0,82	2,00	2,62	3,77	95
	3,5	3,50	---	1,93	3,50	4,86	0,46	0,80	1,43	2,09	3,84	6,53	95
	4,2	---	4,20	1,93	4,20	5,33	0,46	0,82	1,44	2,09	3,93	6,57	95
	5,0	---	5,00	1,94	5,00	6,03	0,44	1,50	2,13	2,00	7,20	9,77	95
	6,0	---	6,00	1,94	6,00	6,51	0,44	1,52	2,13	2,00	7,29	9,77	95
	1.5+1.5	1,50	1,50	1,95	3,00	4,79	0,40	0,60	1,15	1,81	2,75	5,25	95
	1.5+2.0	1,50	2,00	1,95	3,50	4,96	0,40	0,74	1,22	1,81	3,38	5,58	95
	1.5+2.5	1,50	2,50	1,95	4,00	5,28	0,40	0,89	1,36	1,81	4,08	6,23	95
	1.5+3.5	1,50	3,50	1,95	5,00	6,17	0,39	1,24	1,83	1,77	5,68	8,39	95
	1.5+4.2	1,50	4,20	1,95	5,70	6,39	0,39	1,51	1,96	1,77	6,90	8,96	95
	1.5+5.0	1,50	5,00	1,95	6,50	7,08	0,38	1,78	2,23	1,73	8,14	10,22	95
	1.5+6.0	1,36	5,44	1,96	6,80	7,59	0,37	1,93	2,36	1,68	8,82	10,79	95
	2.0+2.0	2,00	2,00	1,95	4,00	5,12	0,40	0,89	1,29	1,81	4,08	5,91	95
	2.0+2.5	2,00	2,50	1,95	4,50	5,44	0,40	1,06	1,43	1,81	4,86	6,56	95
	2.0+3.5	2,00	3,50	1,95	5,50	6,30	0,39	1,39	1,91	1,77	6,38	8,76	95
	2.0+4.2	2,00	4,20	1,95	6,20	6,51	0,39	1,70	2,05	1,77	7,77	9,37	95
	2.0+5.0	1,94	4,86	1,95	6,80	7,26	0,38	1,90	2,36	1,73	8,68	10,79	95
	2.0+6.0	1,70	5,10	1,96	6,80	7,71	0,37	1,92	2,45	1,68	8,78	11,20	95
	2.5+2.5	2,50	2,50	1,95	5,00	6,10	0,41	1,20	1,78	1,89	5,51	8,15	95
	2.5+3.5	2,50	3,50	1,95	6,00	6,57	0,40	1,54	2,11	1,81	7,03	9,65	95
	2.5+4.2	2,50	4,20	1,95	6,70	6,95	0,40	1,79	2,38	1,81	8,21	10,88	95
	2.5+5.0	2,27	4,53	1,95	6,80	7,37	0,37	1,78	2,45	1,68	8,15	11,20	95
	2.5+6.0	2,00	4,80	1,96	6,80	7,71	0,35	1,76	2,45	1,60	8,06	11,20	95
	3.5+3.5	3,40	3,40	1,95	6,80	7,13	0,38	1,73	2,37	1,73	7,90	10,83	95
	3.5+4.2	3,09	3,71	1,95	6,80	7,24	0,38	1,72	2,46	1,73	7,87	11,24	95
	3.5+5.0	2,80	4,00	1,95	6,80	7,76	0,35	1,68	2,78	1,60	7,71	12,71	95
	3.5+6.0	2,51	4,29	2,26	6,80	8,07	0,40	1,67	2,72	1,81	7,63	12,46	95
	4.2+4.2*	3,40	3,40	1,95	6,80	7,14	0,38	1,71	2,37	1,73	7,84	10,83	95
	4.2+5.0*	3,10	3,70	1,95	6,80	7,77	0,35	1,68	2,78	1,60	7,68	12,71	95
	4.2+6.0*	2,80	4,00	2,26	6,80	8,08	0,40	1,66	2,72	1,81	7,60	12,46	95

Notes

1. The total capacity of each connected indoor unit is up to ·10.2·kW.
2. The values above are for connecting with the following indoor unit types:
   ·1.5, 2.0, 2.5, 3.5, 4.2, 5.0, 6.0· kW class
   Wall-mounted ·CTXM-M, CTXM-N, CTXM-R, FTXM-M, FTXM-N, FTXM-R· series
   * Only for ·CTXM-R and FTXM-R series·
3. Cooling capacity conditions
   Indoor temperature ·27·°C DB / ·19·°C WB
   Outdoor temperature ·35·°C DB

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2MXM68N

Heating ·(50Hz 230V)·

Outdoor unit	Indoor unit	Heating capacity [kW]		Total capacity [kW]			Power input [kW]			Total current [A]			Power factor [%]
		Room ·A·	Room ·B·	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	
2MXM68N2V1B	1,5	2,70	---	1,47	2,70	4,08	0,42	0,72	1,22	1,91	3,35	5,59	95
	2,0	2,72	---	1,48	2,72	4,09	0,43	0,73	1,28	1,95	3,39	5,64	95
	2,5	3,40	---	1,44	3,40	4,30	0,42	1,02	1,37	1,91	4,72	6,08	95
	3,5	4,30	---	1,45	4,30	4,90	0,40	1,41	1,75	1,82	6,50	7,15	95
	4,2	---	4,32	1,44	4,32	5,70	0,40	1,40	2,04	1,82	6,46	7,15	95
	5,0	---	5,60	1,66	5,60	6,90	0,39	1,82	2,59	1,78	8,43	8,70	95
	6,0	---	7,90	1,88	7,90	8,91	0,37	2,62	2,64	1,69	12,13	12,08	95
	1.5+1.5	2,65	2,65	1,65	5,30	7,38	0,36	1,19	1,83	1,63	5,45	8,38	95
	1.5+2.0	2,44	3,26	1,65	5,70	7,76	0,36	1,31	1,99	1,63	6,00	9,09	95
	1.5+2.5	2,29	3,81	1,65	6,10	7,95	0,36	1,43	2,06	1,63	6,55	9,43	95
	1.5+3.5	2,07	4,83	1,80	6,90	8,50	0,37	1,69	2,35	1,68	7,74	10,74	95
	1.5+4.2	1,97	5,53	1,80	7,50	8,85	0,37	1,90	2,57	1,68	8,70	11,75	95
	1.5+5.0	1,89	6,31	2,18	8,20	10,38	0,45	2,13	2,91	2,06	9,75	13,31	95
	1.5+6.0	1,72	6,88	2,46	8,60	10,58	0,48	2,28	2,67	2,19	10,44	12,21	95
	2.0+2.0	3,25	3,25	1,65	6,50	7,95	0,36	1,37	2,31	1,63	6,28	9,47	95
	2.0+2.5	3,07	3,83	1,65	6,90	8,12	0,36	1,52	2,32	1,63	6,96	9,81	95
	2.0+3.5	2,73	4,77	1,80	7,50	8,67	0,37	1,75	2,43	1,68	8,01	11,12	95
	2.0+4.2	2,58	5,42	1,80	8,00	9,03	0,37	1,98	2,66	1,68	9,07	12,17	95
	2.0+5.0	2,46	6,14	2,18	8,60	10,56	0,45	2,26	3,00	2,06	10,35	13,73	95
	2.0+6.0	2,15	6,45	2,46	8,60	10,75	0,48	2,24	2,74	2,19	10,26	12,55	95
	2.5+2.5	3,60	3,60	1,65	7,20	8,49	0,36	1,62	2,36	1,63	7,42	10,78	95
	2.5+3.5	3,29	4,61	1,89	7,90	9,03	0,38	1,91	2,66	1,72	8,75	12,17	95
	2.5+4.2	3,10	5,20	1,89	8,30	9,29	0,38	2,11	2,82	1,72	9,66	12,93	95
	2.5+5.0	2,87	5,73	2,27	8,60	10,68	0,46	2,24	3,09	2,11	10,26	14,15	95
	2.5+6.0	2,53	6,07	2,55	8,60	10,88	0,50	2,22	2,77	2,28	10,17	12,67	95
	3.5+3.5	4,30	4,30	2,17	8,60	9,38	0,42	2,26	2,86	1,94	10,35	13,09	95
	3.5+4.2	3,91	4,69	2,17	8,60	9,47	0,42	2,26	2,91	1,94	10,35	13,31	95
	3.5+5.0	3,54	5,06	2,56	8,60	10,90	0,51	2,22	3,13	2,32	10,17	14,32	95
	3.5+6.0	3,17	5,43	2,74	8,60	11,01	0,52	2,21	2,76	2,37	10,12	12,63	95
	4.2+4.2*	4,30	4,30	2,17	8,60	9,56	0,42	2,22	2,94	1,94	10,17	13,47	95
	4.2+5.0*	3,93	4,67	2,56	8,60	10,91	0,51	2,21	3,19	2,32	10,12	14,61	95
	4.2+6.0*	3,54	5,06	2,74	8,60	11,02	0,51	2,20	2,79	2,32	10,07	12,76	95

Notes

1. The total capacity of each connected indoor unit is up to ·10.2·kW.
2. The values above are for connecting with the following indoor unit types:
   ·1.5, 2.0, 2.5, 3.5, 4.2, 5.0, 6.0· kW class
   Wall-mounted ·CTXM-M, CTXM-N, CTXM-R, FTXM-M, FTXM-N, FTXM-R· series
   *Only for ·CTXM-R and FTXM-R seies·
3. Heating capacity conditions
   Indoor temperature ·20·°C DB
   Outdoor temperature ·7·°C DB / ·6·°C WB
4. Cooling capacity conditions
   Indoor temperature ·27·°C DB / ·19·°C WB
   Outdoor temperature ·35·°C DB

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5 Capacity tables

5 - 1 Capacity Table Legend

In order to fulfill more your requirements on quick access of data in the format you require, we have developed a tool to consult capacity tables.

Below you can find the link to the capacity table database and an overview of all the tools we have to help you select the correct product:

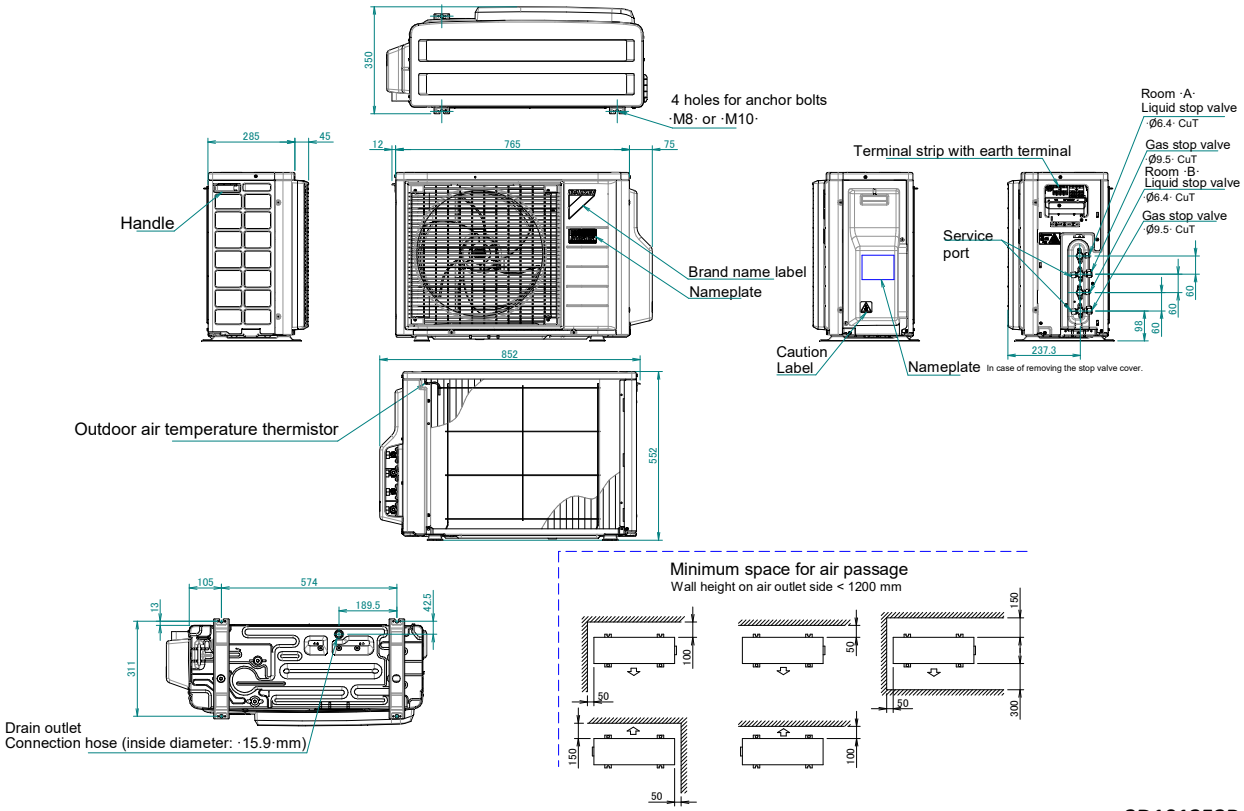
- **Capacity table database:** lets you find back and export quickly the capacity information you are looking for based upon unit model, refrigerant temperature and connection ratio.
- You can access the capacity table viewer here:
  https://my.daikin.eu/content/denv/en_US/home/applications/software-finder/capacity-table-viewer.html

- An overview of **all software tools** that we offer can be found here:
  https://my.daikin.eu/denv/en_US/home/applications/software-finder.html

6 Dimensional drawings

6 - 1 Dimensional Drawings

2MXM40N



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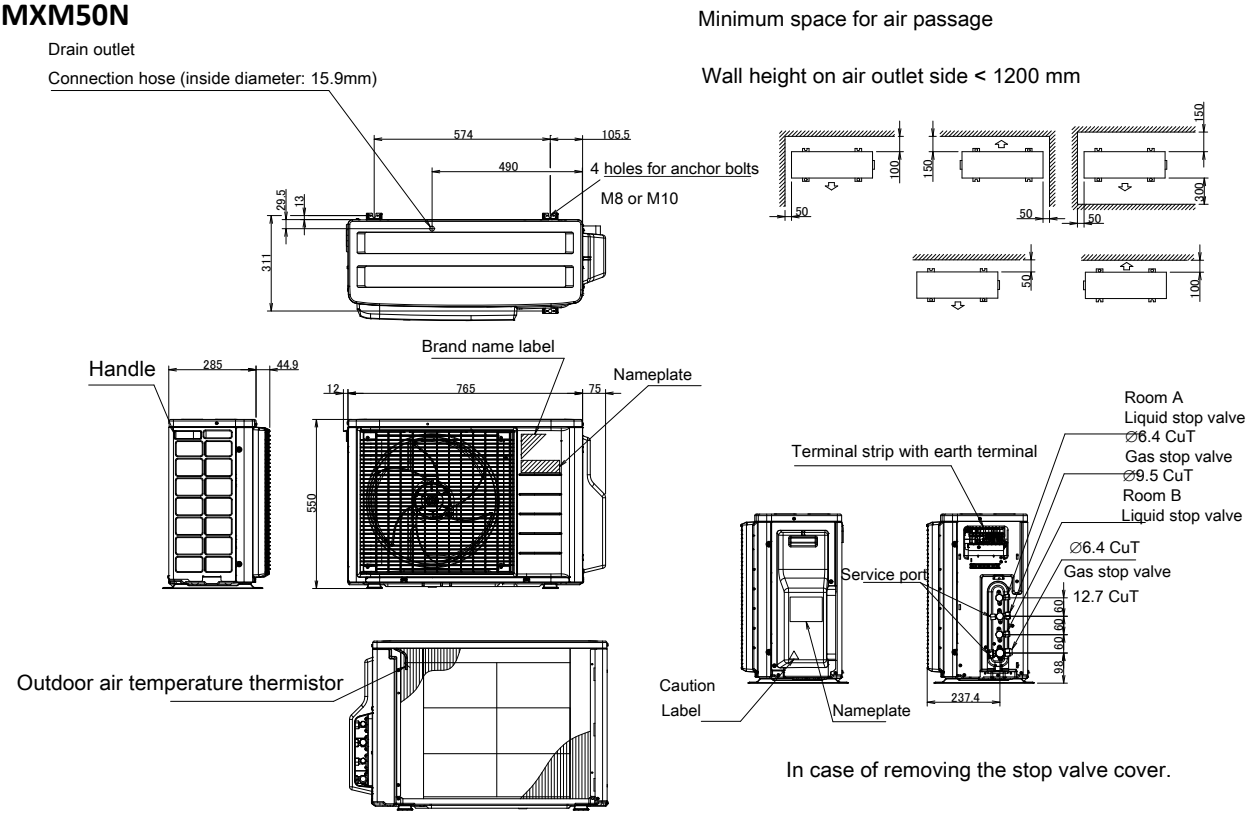
2MXM50N



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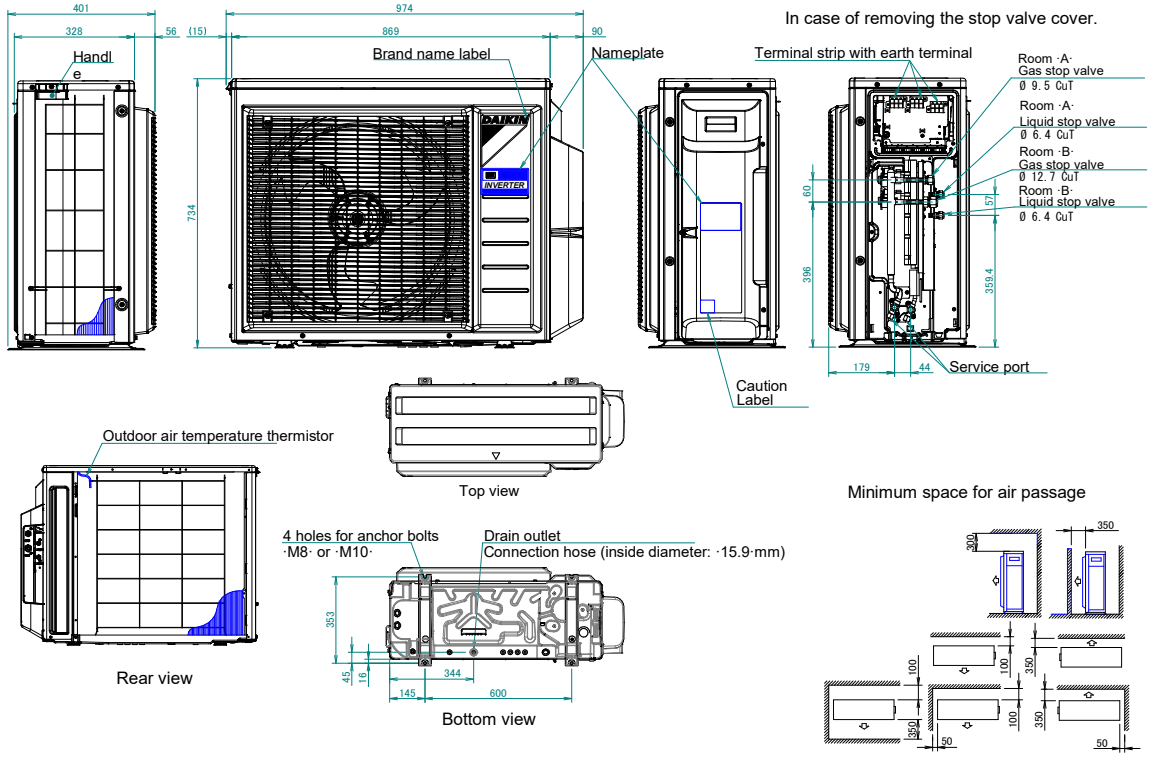
6 Dimensional drawings

6 - 1 Dimensional Drawings

2MXM68N



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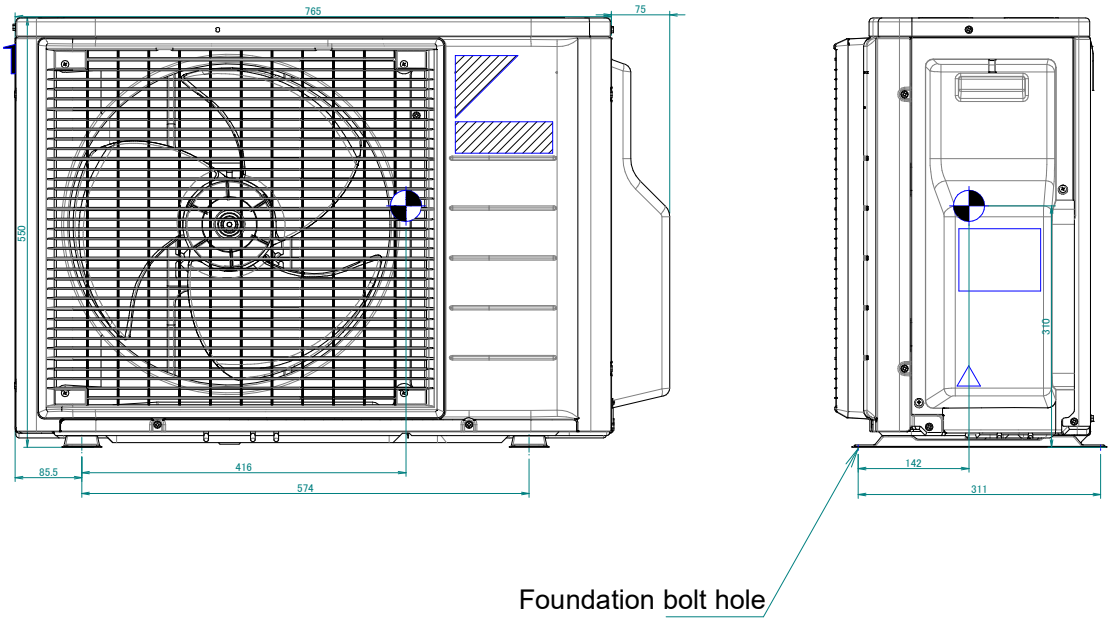
7 Centre of gravity

7 - 1 Centre of Gravity

2MXM40-50N



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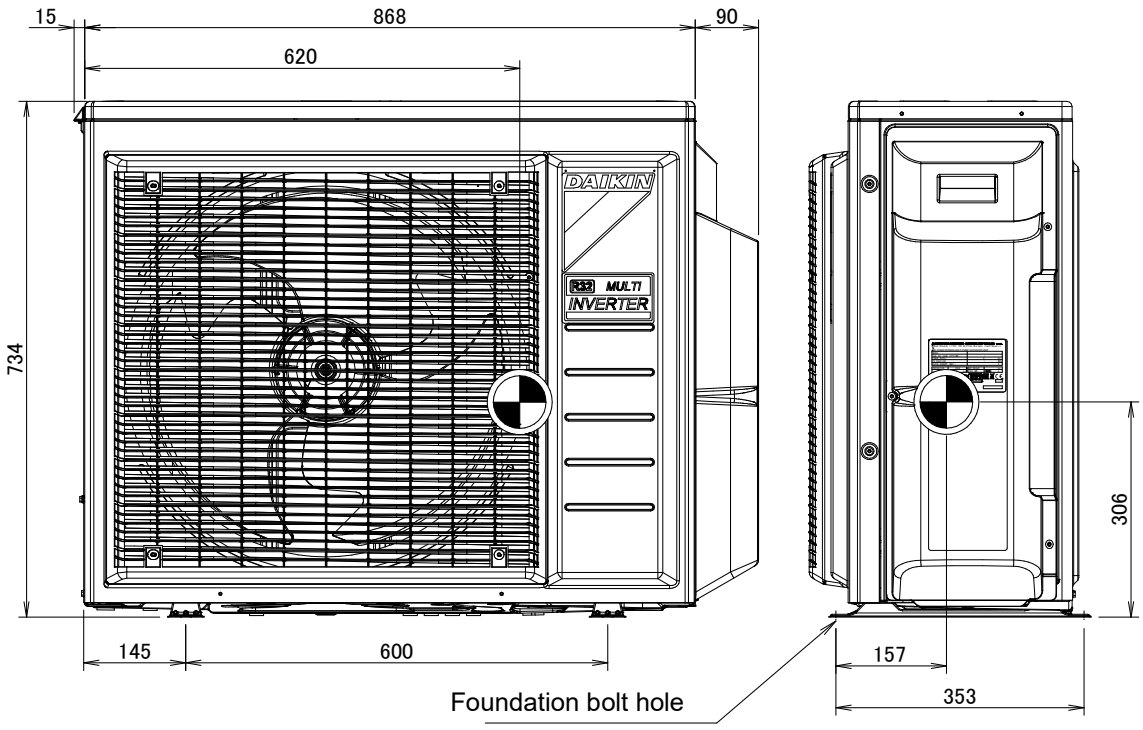

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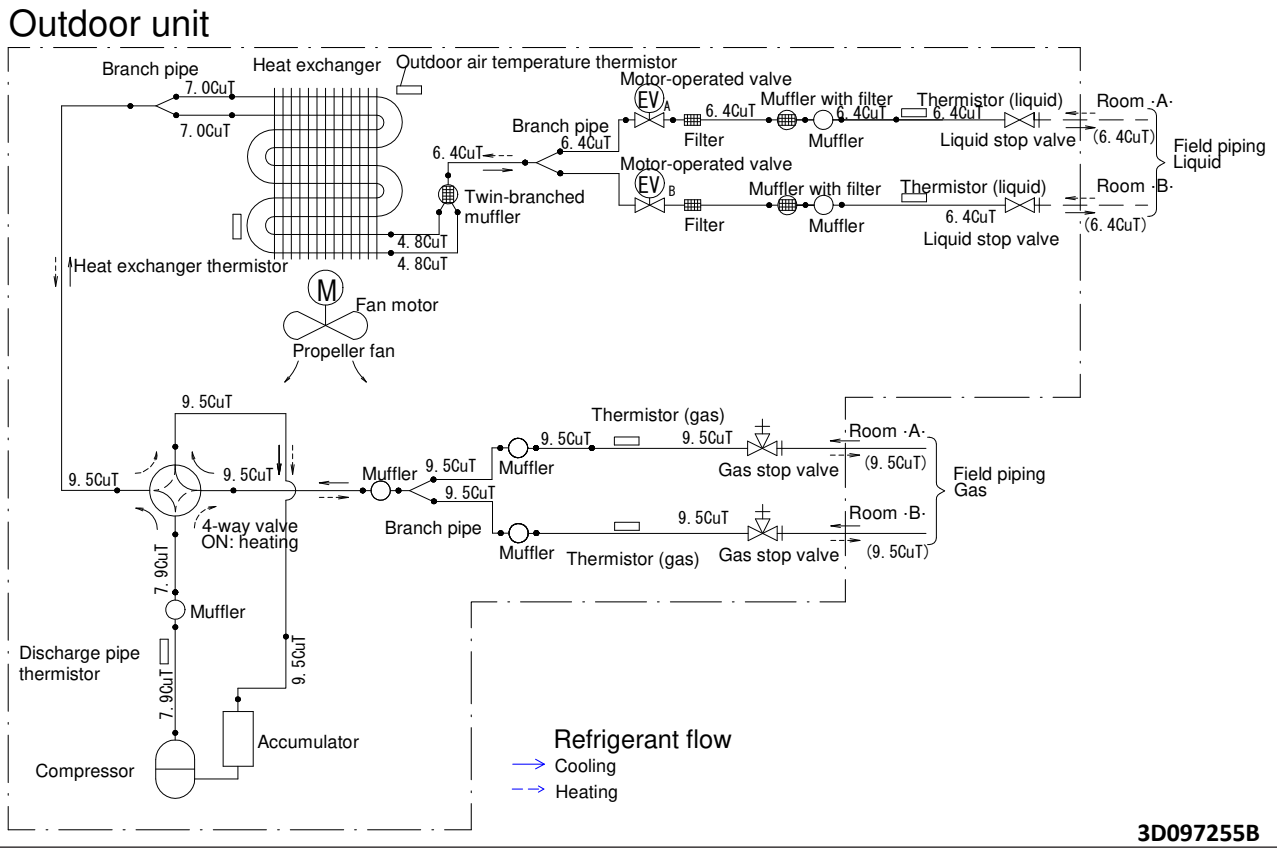
8 Piping diagrams

8 - 1 Piping Diagrams

2MXM40N



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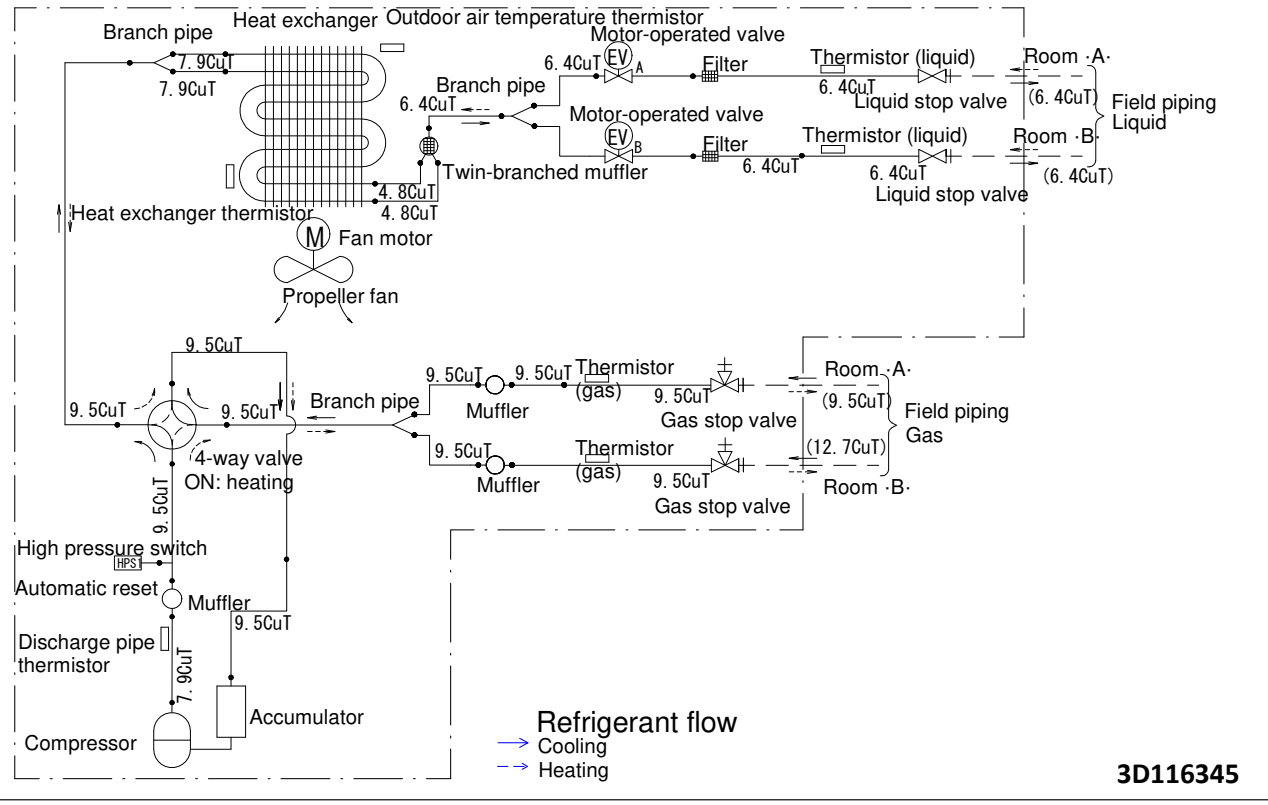

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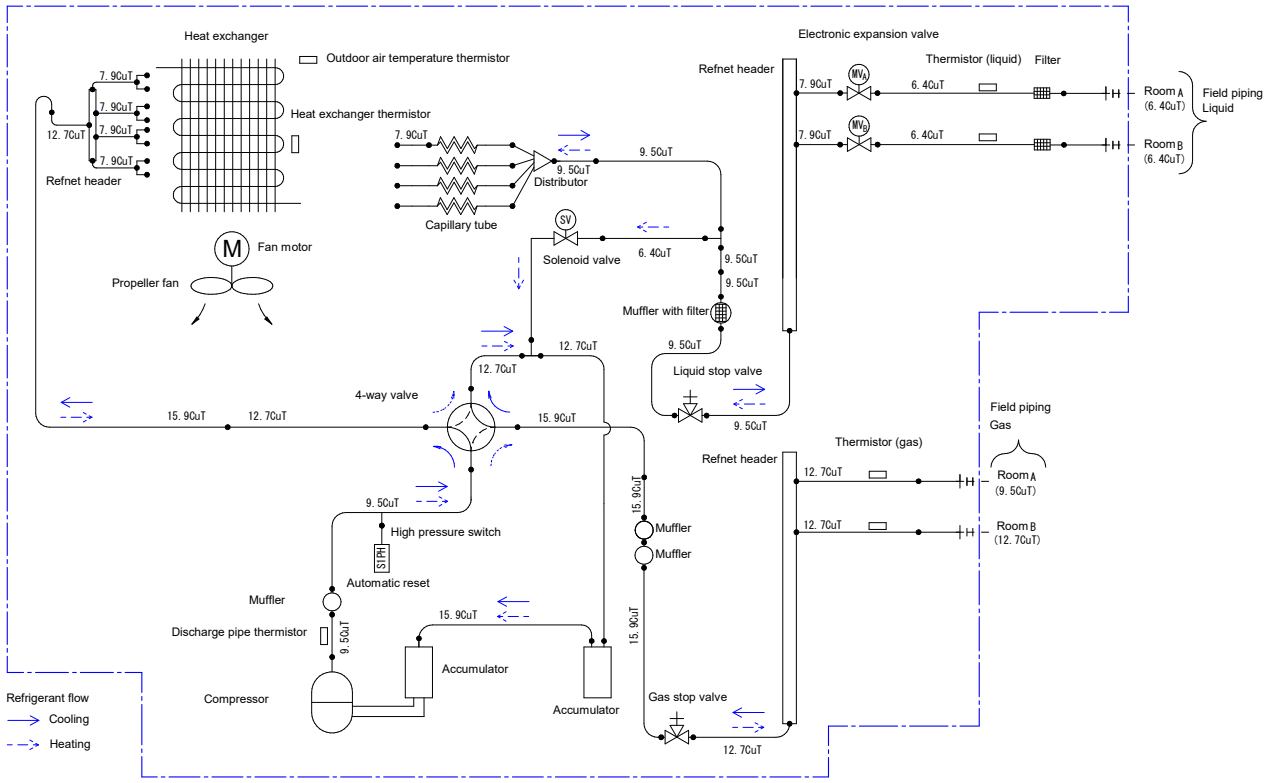
8 Piping diagrams

8 - 1 Piping Diagrams

2MXM68N

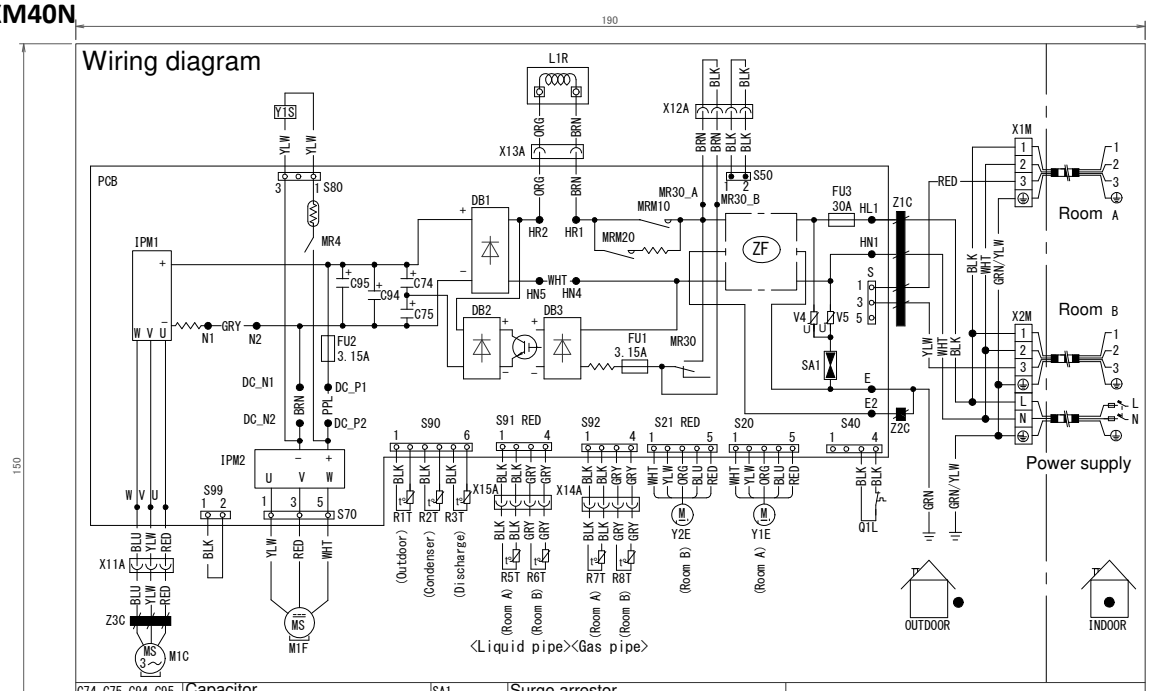
Outdoor Unit



9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

2MXM40N



C74, C75, C94, C95	Capacitor	SA1	Surge arrestor		
DB1, DB2, DB3	Diode bridge				
FU1, FU2, FU3	Fuse	V4, V5	Varistor		
IPM1	Intelligent power module	X1M–X2M	Terminal strip with earth terminal	Field wiring	
L1R	Reactor	Y1E–Y2E	Electronic expansion valve coil	Screw terminal	
M1C	Compressor motor	Y1S	Reversing solenoid valve coil	Connector	
M1F	Fan motor	ZF	Noise filter	WHT: white	GRY: grey
MRM10, MRM20	Magnetic relay	Z1C–Z3C	Ferrite core	BLK: black	ORG: orange
MR4, MR30	Magnetic relay	S2–S502	Connector	BLU: blue	RED: red
PCB	Printed circuit board	X11A–X15A	Connector	BRN: brown	YLW: yellow
Q1L	Overload protector	S99	Heating-to-cooling changeover	GRN: green	
R1T–R8T	Thermistor			PPL: purple	

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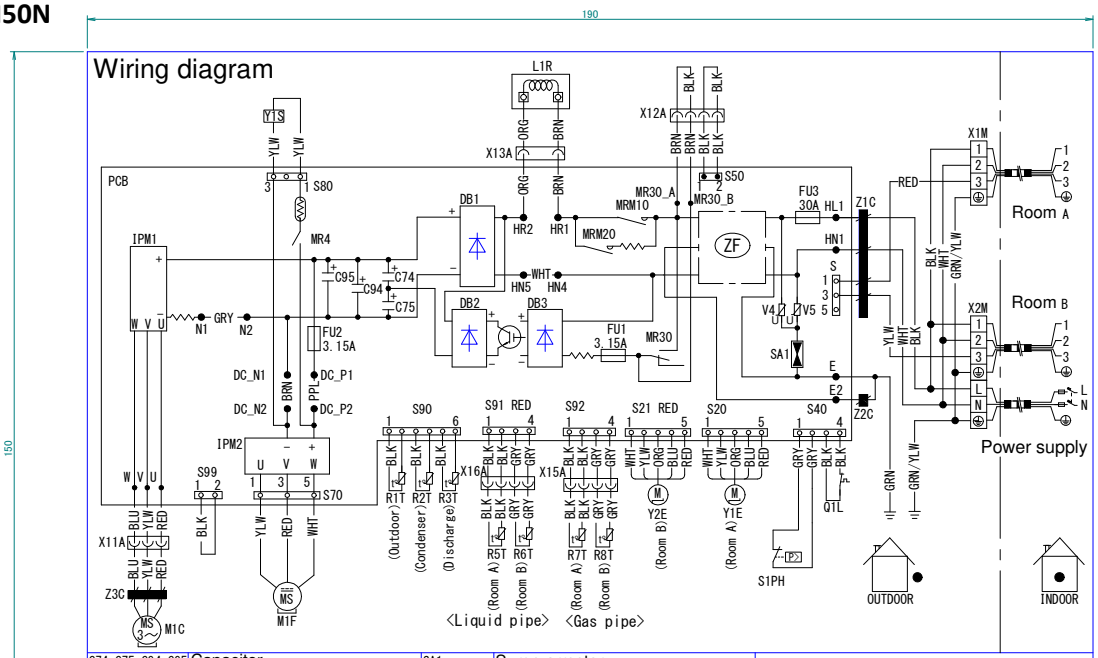
2MXM50N



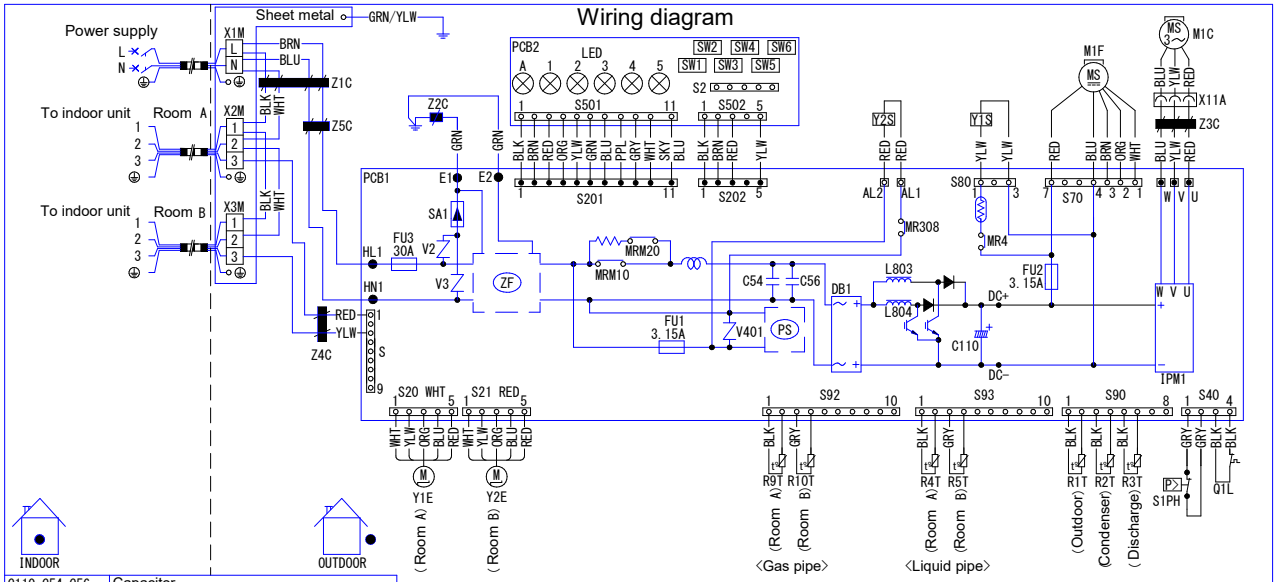
C74, C75, C94, C95	Capacitor	SA1	Surge arrestor		
DB1, DB2, DB3	Diode bridge	S1PH	High pressure switch		
FU1, FU2, FU3	Fuse	V4, V5	Varistor		
IPM1	Intelligent power module	X1M–X2M	Terminal strip with earth terminal	Field wiring	
L1R	Reactor	Y1E–Y2E	Electronic expansion valve coil	Screw terminal	
M1C	Compressor motor	Y1S	Reversing solenoid valve coil	Connector	
M1F	Fan motor	ZF	Noise filter	WHT: white	GRY: grey
MRM10, MRM20	Magnetic relay	Z1C–Z3C	Ferrite core	BLK: black	ORG: orange
MR4, MR30	Magnetic relay	S2–S502	Connector	BLU: blue	RED: red
PCB	Printed circuit board	X11A–X16A	Connector	BRN: brown	YLW: yellow
Q1L	Overload protector	S99	Heating-to-cooling changeover	GRN: green	
R1T–R8T	Thermistor			PPL: purple	

3D114690B

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

2MXM68N



C110, C54, C56	Capacitor						
DB1	Diode bridge	Q1L	Overload protector	ZF	Noise filter		
FU1, FU2, FU3	Fuse	R1T–R10T	Thermistor	S, S2–S502	Connector		
IPM1	Intelligent power module	SA1	Surge arrester	U, V, W	Connector		
L803, L804	Reactor	S1PH	High pressure switch	X11A, AL1, AL2	Connector		
LED1–5, LEDA	Light-emitting diode	SW1–SW6	Switch		Field wiring		
M1C	Compressor motor	V2, V3, V401	Varistor		Screw terminal		
M1F	Fan motor	X1M–X3M	Terminal strip with earth terminal		Connector		
MRM10, MRM20	Magnetic relay	Y1E–Y2E	Electronic expansion valve coil	BLK: black	GRY: grey	SKY BLU: sky blue	
MR4, MR308	Magnetic relay	Y1S	Reversing solenoid valve coil	BLU: blue	ORG: orange	WHT: white	
PCB1, PCB2	Printed circuit board	Y2S	Solenoid valve	BRN: brown	PPL: purple	YLW: yellow	
PS	Switching power supply	Z1C–Z5C	Ferrite core	GRN: green	RED: red	3D130366-1	

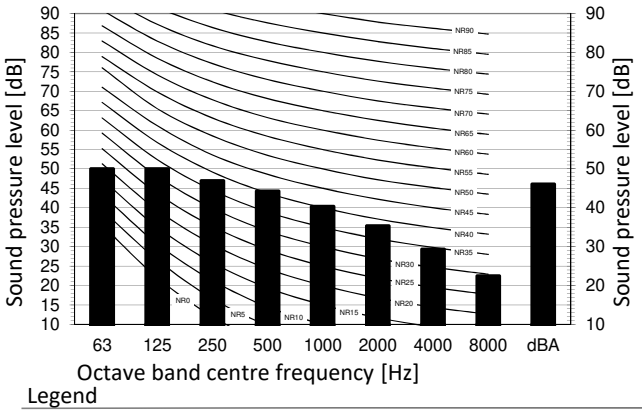
3D130366

10 Sound data

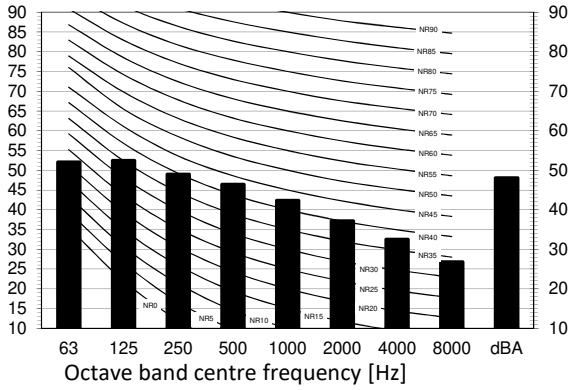
10 - 1 Sound Pressure Spectrum

2MXM40N

Cooling mode



Heating mode



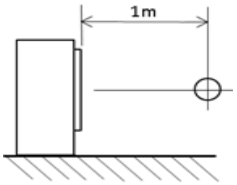
Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B Fan speed: High

Location of microphone



Cooling Total dB

A	B
dBA	46

Heating Total dB

A	B
dBA	48

Notes

1 Background noise already taken into account.

2 Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard

3 Operating noise varies depending on operation and ambient conditions.

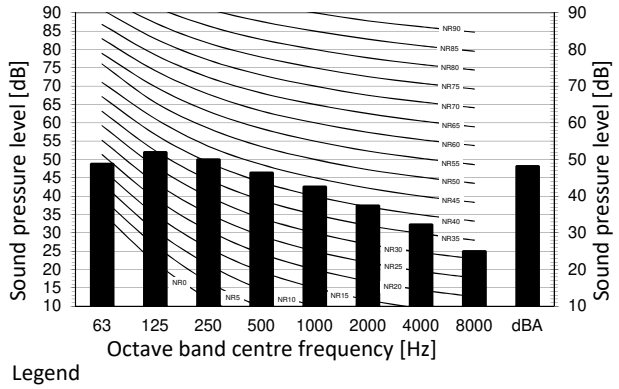
4 The operation noise measuring method is in accordance with JISC9612.

5 Measuring location: anechoic chamber

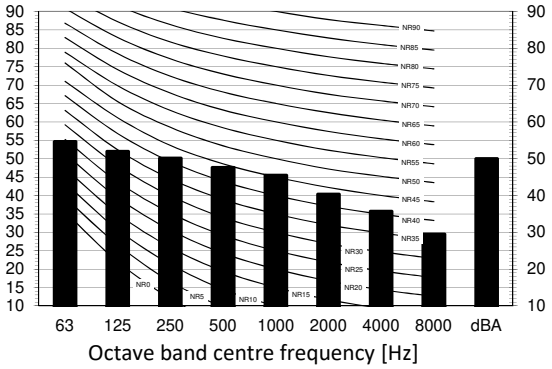
3D102207C

2MXM50N

Cooling mode



Heating mode



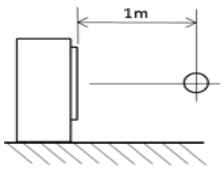
Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B Fan speed: High

Location of microphone



Cooling Total dB

A	B
dBA	48

Heating Total dB

A	B
dBA	50

Notes

1 Background noise already taken into account.

2 Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard

3 Operating noise varies depending on operation and ambient conditions.

4 The operation noise measuring method is in accordance with JISC9612.

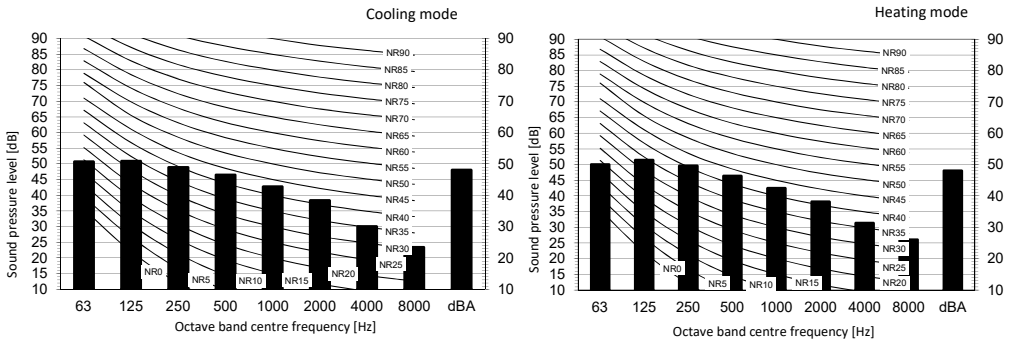
5 Measuring location: anechoic chamber

3D102208C

10 Sound data

10 - 1 Sound Pressure Spectrum

2MXM68N



Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B Fan speed: High

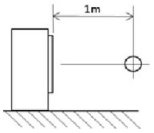
Cooling Total dB

A	B
dBA	48

Heating Total dB

A	B
dBA	49

Location of microphone



Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

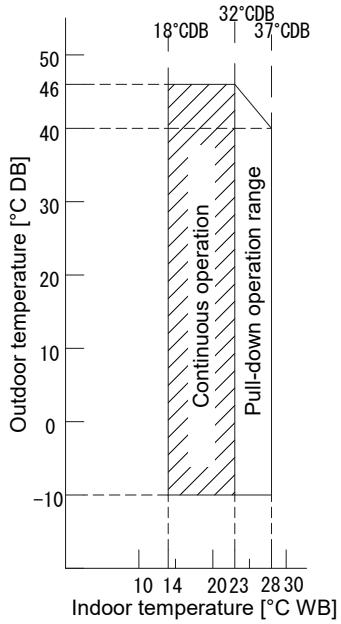
3D106223B

11 Operation range

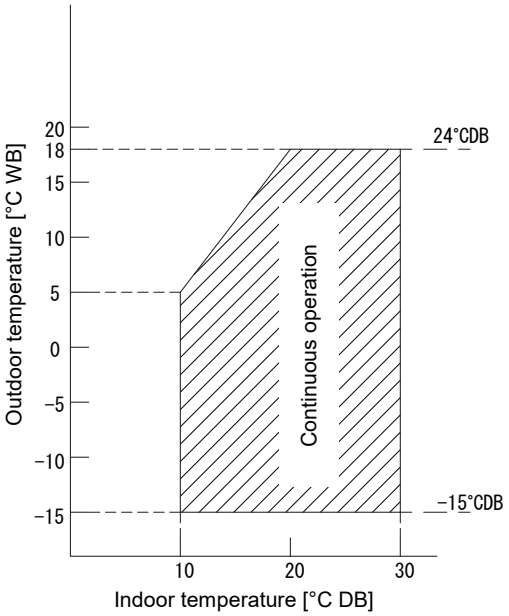
11 - 1 Operation Range

2MXM-N

Cooling



Heating



Notes
1. The ·graph· is based on the following conditions.
Corresponding refrigerant piping length: ·5· m
Level difference: ·0·m
Air flow rate High

3D101376D

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